#### **REMARKS**

After entry of the present Preliminary Amendment, Claims 1 and 13-47 are pending in the present application. Claim 1 has been maintained in the application in order to avoid the possibility of the application having no claims pending at one point in time. The Examiner is authorized to cancel Claim 1. Alternatively, Applicants will file a supplemental preliminary amendment to cancel Claim 1.

Claims 13-47 have been added. These claims have been copied or substantially copied from U.S. Patent No. 6,114,264, a copy of which is being submitted concurrently herewith in an Information Disclosure Statement. (A further Information Disclosure Statement will be filed to make of record all the prior art cited in the parent and grandparent applications.)

Applicants have copied or substantially copied Claims 1-35 of the '264 Patent to preserve their rights under 35 U.S.C. § 135 to provoke an interference. Applicants may submit Rule 607 and 608 papers, as appropriate.

Applicant identifies in Table I below exemplary support in the present application for new Claims 13-47.

TABLE I

New Claims 13-47		Exemplary Support in the Instant Application
13. A neutral gray colored glass		"there is provided an IR and UV absorbing
	ng a base glass portion	soda lime silica glass of a neutral tint" (4: 2-
comprising:		3); "base glass" (6:28)
SiO <sub>2</sub>	65 to 80 percent by weight	SiO <sub>2</sub> 65 to 80 %
Na <sub>2</sub> O	10 to 20 percent by weight	Na <sub>2</sub> O 10 to 20
CaO	5 to 15 percent by weight	CaO 5 to 15
MgO	0 to 10 percent by weight	MgO 0 to 10
$Al_2O_3$	0 to 5 percent by weight	$Al_2O_3$ 0 to 5
$K_2O$	0 to 5 percent by weight	K <sub>2</sub> O 0 to 5
		(6:14-24)
and a colorant portion consisting essentially of:		"the coloring constituents of the present invention: (6; 26-27)
Fe <sub>2</sub> O <sub>3</sub> (total iro	on) 0.30 to 0.70 percent by weight	"total iron content expressed as Fe <sub>2</sub> O <sub>3</sub> of
FeO	up to 0.16 percent by weight	from 0.3 to 0.7% by weight" (4:13-14); 0.16
Co <sub>3</sub> O <sub>4</sub>	3 to 25 PPM	wt. % FeO (Example 9; "from about 3 to 25
Se	0.5 to 10 PPM	ppm of Co <sub>3</sub> O <sub>4</sub> " (4:16); "0.5 to 10 parts by
		million (ppm) of Se (4:15-16)
wherein		
the color of the glass is characterized by a dominant wavelength less than 560 nanometers,		"a dominant wavelength less than 560 nm" (4:7-8)
a color purity of no higher than 6 percent and		"a color purity not greater than 6" (4:8-9)
a visible light transmission of 70 percent		"in a 4 mm thickness, a visible light
or greater at a thickness of 4 millimeters.		transmission of at least 70%" (4:4-5)
14. The composition as in claim 13 wherein		
the direct	solar heat transmission is at least	"a direct solar heat transmission at least 12
12 percentage points below the visible light		percentage points below the visible light

transmission.	transmission (4:5-7)
15. The composition as in claim 14	
wherein	
the Fe <sub>2</sub> O <sub>3</sub> concentration is from 0.45 to 0.65 weight percent,	"preferred compositions include 0.45 to 0.65% total iron (as Fe <sub>2</sub> O <sub>3</sub> )" (9:8-10)
the FeO concentration is from 0.08 to 0.16 weight percent,	Examples 4 and 9 (see, Table I)
the Co <sub>3</sub> O <sub>4</sub> concentration is from 8 to 20 PPM and	"8 to 20 ppm Co <sub>3</sub> O <sub>4</sub> " (9:11)
the Se concentration is from 1 to 5 PPM.	"1 to 5 ppm Se" (9:11)
16. The composition of claim 13 wherein	
the color of the glass is characterized by	
a dominant wavelength in the range of 494 to 560 nanometers and	Examples 9 and 10 (see, Table I)
a color purity of no higher than 3%.	"color purity most preferably no more than 3" (4:9-10)
17. The composition as in claim 13 further including	
additional ultraviolet absorbing material.	"TiO <sub>2</sub> may be added to the glass" (4:20)
18. The composition as in claim 17 wherein	
said ultraviolet absorbing material is titanium dioxide	"TiO <sub>2</sub> may be added to the glass
present in an amount up to 1.5 wt. % of the glass composition.	[in the range of] 0 to 1.5 weight percent TiO <sub>2</sub> " (4:20-21)
19. The composition as in claim 18 wherein	
said TiO <sub>2</sub> is present in an amount from 0.33 to 1.0 wt. %.	Examples 2 and 10 (Table I)

	20. A slagg shoot made from the	"along shoots" (7:12)
come	20. A glass sheet made from the osition as recited in claim 13.	"glass sheets" (7:12)
comp	21. The glass sheet as in claim 20 wherein	"glass sheets" (7:12)
	21. The State offer as in ordina 20 wherein	
	the sheet has a thickness between 1.7 to 5	"the glass sheets for windshield use are of a
mm.		thickness in the range of from about 1.7 mm
		to about 2.5 mm, while those tempered and used as sidelights or back lights are in the
		range of about 3 mm to about 5 mm thick"
		(7:16-20)
	22. The glass sheet as in claim 20 wherein	
	the color of the glass is characterized by	
	a dominant wavelength in the range of 494	Examples 9 and 10 (see, Table I)
to 560	nanometers and	
	a color purity of no higher than 3%.	"color purity most preferably no more
	1 , 5	than 3" (4:9-10)
	23. A neutral gray colored glass	"neutral tint" (4:2-3); "base glass" (6:28)
-	osition having a base glass portion	
comp	rising:	
	SiO <sub>2</sub> 65 to 80 percent by weight	SiO <sub>2</sub> 65 to 80 %
	Na <sub>2</sub> O 10 to 20 percent by weight	Na <sub>2</sub> O 10 to 20
	CaO 5 to 15 percent by weight	CaO 5 to 15
	MgO 0 to 10 percent by weight	MgO 0 to 10
	Al <sub>2</sub> O <sub>3</sub> 0 to 5 percent by weight	$Al_2O_3$ 0 to 5
	K <sub>2</sub> O 0 to 5 percent by weight	$K_2O$ 0 to 5
		(6:14-24)
and a	colorant portion consisting essentially of:	"coloring constituents" (6:26-27)
	•	,
Fe <sub>2</sub> C	0 <sub>3</sub> (total iron) 0.30 to 0.70 percent by weight	"total iron content expressed as Fe <sub>2</sub> O <sub>3</sub> of
FeO		from 0.3 to 0.7% by weight" (4:13-14); 0.16
Co <sub>3</sub> C		wt. % FeO (Example 9; "from about 3 to 25
Se	0.5 to 10 PPM	ppm of Co <sub>3</sub> O <sub>4</sub> " (4:16); "0.5 to 10 parts by
NiO	up to 50 PPM	

wherein	million (ppm) of Se (4:15-16);"0 to 50 ppm NiO" (4:20)
	(4.20)
the color of the glass is characterized by	
a dominant wavelength in the range of less than 560 nanometers,	"a dominant wavelength less than 560 nm" (4:7-8)
a color purity of no higher than 6 percent and	"a color purity not greater than 6" (4:8-9)
a visible light transmission of 70 percent or greater at a thickness of 4 millimeters.	"in a 4 mm thickness, a visible light transmission of at lest 70%" (4:4-5)
24. The composition as in claim 23 wherein	
the direct solar heat transmission is at least 12 percentage points below the visible light transmission.	"a direct solar heat transmission at least 12 percentage points below the visible light transmission (4:5-7)
25. The composition as in claim 23 wherein	
the Fe <sub>2</sub> O <sub>3</sub> concentration is from 0.45 to 0.65 weight percent,	"preferred compositions include 0.45 to 0.65% total iron (as Fe <sub>2</sub> O <sub>3</sub> )" (9:8-10)
the FeO concentration is from 0.08 to 0.16 weight percent,	Examples 4 and 9 (see, Table I)
the Co <sub>3</sub> O <sub>4</sub> concentration is from 22 to 27 PPM, and	"8 to 20 ppm Co <sub>3</sub> O <sub>4</sub> " (9:11)
the Se concentration is from 1 to 5 PPM.	"1 to 5 ppm Se" (9:11)
26. The composition of claim 24 wherein	
the color of the glass is characterized by	
a dominant wavelength in the range of 494 to 560 nanometers and	Examples 9 and 10 (see, Table I)

a color purity of no higher than 3%.	"color purity most preferably no more than 3" (4:9-10)
27. The composition as in claim 23 further including	
additional ultraviolet absorbing material.	"TiO <sub>2</sub> may be added to the glass" (4:20)
28. The composition as in claim 27 wherein	
said ultraviolet absorbing material is titanium dioxide	"TiO <sub>2</sub> may be added to the glass
present in an amount up to 1.5 wt. % of the glass composition.	[in the range of] 0 to 1.5 weight percent TiO <sub>2</sub> " (4:20-21)
29. The composition as in claim 28 wherein	
said TiO <sub>2</sub> is present in an amount from 0.33 to 1.0 wt. %.	Examples 2 and 10 (Table I)
30. A glass sheet made from the composition as recited in claim 23.	"glass sheets" (7:12)
31. The glass sheet as in claim 30 wherein	"glass sheets" (7:12)
the sheet has a thickness between 1.7 to 5 mm.	"the glass sheets for windshield use are of a thickness in the range of from about 1.7 mm to about 2.5 mm, while those tempered and sued as sidelights or backlights are in the range of about 3 mm to about 5 mm thick" (7:16-20).
32. The glass sheet as in claim 30 wherein	
the color of the glass is characterized by a dominant wavelength in the range of 494 to 560 nanometers and	Examples 9 and 10 (see, Table I)
a color purity of no higher than 3%.	"color purity most preferably no more than 3: (4:9-10)
33. A neutral gray colored glass composition having a base glass portion comprising:	"there is provided an IR and UV absorbing soda lime silica glass of a neutral tint" (4:2-3); "base glass" (6:28)

SiO <sub>2</sub>	65 to 80 percent by weight	SiO <sub>2</sub> 65 to 80 %
Na <sub>2</sub> O	10 to 20 percent by weight	Na <sub>2</sub> O 10 to 20
CaO	5 to 15 percent by weight	CaO 5 to 15
MgO	0 to 10 percent by weight	MgO 0 to 10
$Al O_3$	0 to 5 percent by weight	Al $O_3$ 0 to 5
K <sub>2</sub> O	0 to 5 percent by weight	K <sub>2</sub> O 0 to 5
		(6:14-24)
and a colorant po	ortion consisting essentially of:	"coloring constituents" (6:26-27)
		"total iron content expressed as Fe <sub>2</sub> O <sub>3</sub> , of
Fe <sub>2</sub> O <sub>3</sub> (total iron)	0.45 to 0.7-0 percent by Weight	from 0.3 to 0.7 % by weight" (4:13-14); "preferred compositions include 0.45 to
FeO	up to 0.16 percent by weight	0.65 % total iron (as Fe <sub>2</sub> O <sub>3</sub> )" (9:8-10); 0.16
Co <sub>3</sub> O <sub>4</sub>	3 to 25 PPM	wt % FeO (Example 9); "from about 3 to 25
-	0.5 to 10 PPM	ppm of Co <sub>3</sub> O <sub>4</sub> " (4:16); "0.5 to 10 parts by
Se	0.5 to 10 FFW	million (ppm) of Se" (4:15-16)
wherein		
	of the glass is characterized by a	"a dominant wavelength less than 560 nm"
dominant wavele	ngth less than 560 nanometers,	(4:7-8)
a color purity of no higher than about 8 percent,		"a color purity not greater than 6" (4:8-9)
a visible l	light transmission of greater than	"in a 4 mm thickness, a visible light
70 percent, and		transmission of at lest 70%" (4:4-5)
a direct solar heat transmission at least 12		"a direct solar heat transmission at least 12
percentage points	s below the visible light	percentage points below the visible light
transmission at a thickness of 4 millimeters.		transmission (4:5-7)
	omposition of claim 33 wherein	
the color of the glass is characterized by		
dominant wavelengths in the range of 494 to 56 nanometers and		Examples 9 and 10 (see, Table I)

a color purity of no higher than 3% at a	"color purity most preferably no more
thickness of 4 millimeters.	than 3" (4:9-10)
35. The composition as in claim 33 further including	
additional ultraviolet absorbing material.	"TiO <sub>2</sub> may be added to the glass" (4:20)
36. A glass sheet made from the	"glass sheets" (7:12)
composition as recited in claim 33.	
37. A neutral gray colored glass composition having a base glass portion comprising:	"neutral tint" (4:2-3); "base glass" (6:28)
SiO <sub>2</sub> 65 to 80 percent by weight Na <sub>2</sub> O 10 to 20 percent by weight CaO 5 to 15 percent by weight MgO 0 to 10 percent by weight Al <sub>2</sub> O <sub>3</sub> 0 to 5 percent by weight K <sub>2</sub> O 0 to 5 percent by weight	SiO <sub>2</sub> 65 to 80 % Na <sub>2</sub> O 10 to 20 CaO 5 to 15 MgO 0 to 10 Al <sub>2</sub> O <sub>3</sub> 0 to 5 K <sub>2</sub> O 0 to 5
and a colorant portion consisting essentially of:  Fe <sub>2</sub> O <sub>3</sub> (total iron) 0.45 to 0.70 percent by weight up to 0.16 percent by weight Co <sub>3</sub> O <sub>4</sub> 3 to 25 PPM Se 0.5 to 10 PPM	"coloring constituents" (6:26-27)  "total iron content expressed as Fe <sub>2</sub> O <sub>3</sub> , of from 0.3 to 0.7 % by weight" (4:13-14);  "preferred compositions include 0.45 to 0.65 % total iron (as Fe <sub>2</sub> O <sub>3</sub> )" (9:8-10); 0.16 wt % FeO (Example 9); "from about 3 to 25 ppm of Co <sub>3</sub> O <sub>4</sub> " (4:16); "0.5 to 10 parts by million (ppm) of Se" (4:15-16)
wherein	
the color of the glass is characterized by a dominant wavelength less than 560 nanometers,	"a dominant wavelength less than 560 nm" (4:7-8)
a color purity of no higher than 6 percent and	"a color purity not greater than 6" (4:8-9)
a visible light transmission of greater than	"in a 4 mm thickness, a visible light

70 percent at a thickness of 4 millimeters.	transmission of at least 70%" (4:4-5)
38. The composition as in claim 37	transmission of at least 7070 (7.7-3)
wherein	
WHOLOH	
the color of the glass is characterized by	
the color of the glass is characterized by	
a dominant wavelength in the range of 494	Examples 9 and 10 (see, Table I)
to 560 nanometers and	Examples y and 10 (see, 1 asie 1)
to 300 hanomotors and	
a color purity of no higher than 3 percent	"color purity most preferably no more
at a thickness of 4 millimeters.	than 3 (4:9-10)
39. A neutral gray colored glass	"neutral tint" (4:2-3); "base glass" (6:28)
composition having a base glass portion	(1.20)
comprising:	
,	
SiO <sub>2</sub> 65 to 80 percent by weight	SiO <sub>2</sub> 65 to 80 %
Na <sub>2</sub> O 10 to 20 percent by weight	Na <sub>2</sub> O 10 to 20
CaO 5 to 15 percent by weight	CaO 5 to 15
MgO 0 to 10 percent by weight	MgO 0 to 10
Al <sub>2</sub> O <sub>3</sub> 0 to 5 percent by weight	$Al_2O_3$ 0 to 5
K <sub>2</sub> O 0 to 5 percent by weight	$K_2O$ 0 to 5
	(6:14-24)
and a colorant portion consisting essentially of:	"coloring constituents" (6:26-27)
Fr. O. (4-4-1 in a)	"total iron content expressed as Fe <sub>2</sub> O <sub>3</sub> , of
Fe <sub>2</sub> O <sub>3</sub> (total iron) greater than 0.45 up to 0.65 percent by weight	from 0.3 to 0.7 % by weight" (4:13-14);
FeO up to 0.16 percent by weight	"preferred compositions include 0.45 to
$Co_3O_4$ 3 to 25 PPM	0.65 % total iron (as Fe <sub>2</sub> O <sub>3</sub> )" (9:8-10); 0.16
Se 0.5 to 10 PPM	wt % FeO (Example 9); "from about 3 to 25
NiO up to 50 PPM	ppm of Co <sub>3</sub> O <sub>4</sub> " (4:16); "0.5 to 10 parts by
	million (ppm) of Se" (4:15-16)
	66
wherein the glass has a visible light transmission	"in a 4 mm thickness, visible light
luminous transmittance of greater than 70 percent	transmission of at least 70%" (4:4-5)
at a thickness of 4.0 millimeters.	
40. The composition as in claim 39	
wherein	
the color of the glass is characterized by a	Examples 9 and 10 (see, Table I)

dominant wavelength in the range of 494 to 560 nanometers and	
a color purity of no higher than 6 percent at a thickness of 4.0 millimeters.	"a color purity most preferably not greater than 6" (4:8-9); 4 mm thickness" (4:4)
41. The composition of claim 39 wherein	
the color of the glass is characterized by	
a dominant wavelength in the range of 494 to 560 nanometers and	Examples 9 and 10 (see, Table I)
a color purity of no higher than 3% at a thickness of 4.0 millimeters.	"a color purity most preferably no greater than 3" (4:9-10)
42. The composition as in claim 39 wherein	
the Fe <sub>2</sub> O <sub>3</sub> concentration is from 0.51 to 0.61 weight percent.	Examples 8 and 5 (see, Table I)
43. The composition as in claim 39 wherein	
the direct solar heat transmission is at least 12 percentage points below the visible light transmission.	"a direct solar heat transmission at least 12 percentage points below the visible light transmission (4:5-7)
44. The composition as in claim 39 further including	
additional ultraviolet absorbing material.	"TiO <sub>2</sub> may be added to the glass" (4:20)
45. A glass sheet made from the composition as recited in claim 33.	"glass sheets" (7:12)
46. The composition as in claim 39 wherein	`
the Fe <sub>2</sub> O <sub>3</sub> concentration is from 0.51 to 0.61 weight percent,	Examples 8 and 5 (see, Table I)
the FeO concentration is up to 0.14 weight percent,	Examples 2, 5 and 7 (see, Table I)

PPM,	the Co <sub>3</sub> O <sub>4</sub> concentration is from 5 to 24	Examples 6 and 8 (see, Table I)
and	the Se concentration is from 1 to 9 PPM	Examples 8 and 3 (see, Table I)
and	the NiO concentration is 15 to 31 PPM	Examples 3 and 8 (see, Table I)
	further wherein	
	said composition has a visible light ission of 70 percent or greater at a ess of 4 millimeters.	"in a 4 mm thickness, a visible light transmission of at least 70%" (4:4-5)
where	47. The composition as in claim 33	
the Fe <sub>2</sub> O <sub>3</sub> concentration is from 0.51 to 0.61 weight percent,		Examples 8 and 5 (see, Table I)
the FeO concentration is up to 0.14 weight percent,		Examples 2, 5 and 7 (see, Table I)
PPM a	the Co <sub>3</sub> O <sub>4</sub> concentration is from 5 to 24 and	Examples 6 and 8 (see, Table I
	the Se concentration is from 1 to 9 PPM.	Examples 8 and 3 (see, Table I)

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,

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### <u>APPENDIX</u>

## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

#### IN THE SPECIFICATION:

The specification is changed as follows:

Page 1, first paragraph:

This application is a <u>continuation of Application No. 08/472,189 (Confirmation No. Unknown)</u>, filed June 7, 1995, which is a continuation of Application No. 08/285,652, filed August 3, 1994, which is a continuation-in-part of United States application No. 08/190,883, filed February 3, 1994, the disclosures of which are all incorporated herein by reference.

### IN THE CLAIMS:

Claims 2-12 are canceled.

Claims 13-47 are added as new claims.